

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P		
1	Attachment C																	
2																		
3	Tacoma Smelter Plume Site																	
4																		
5	Trace Element Analyses:																	
6	Maximum Concentrations by Boring																	
7																		
8																		
9																		
10	Location:						Sample Code:						Maximum concentration (in ppm, dry weight):					
11	Study	Type	Direction (degrees)	Distance (miles)	Location	DU	Boring						Arsenic	Lead	Antimony	Bismuth	Indium	Silver
12																		
13																		
14	King County	undisturbed	39.25	21.62	2	1	2		49	300	5.91	3.48	0.255	0.413				
15	Mainland	undisturbed	38.45	22.01	3	1	1		35	170	2.49	1.81	0.136	0.465				
16		undisturbed	36.19	24.99	11	1	3		25	94	1.08	0.749	0.0576	0.217				
17		undisturbed	60.82	15.92	21	1	1		11	57	1.21	0.357	0.05	0.184				
18		undisturbed	59.17	18.85	30	1	3		51	200	2.69	1.47	0.107	0.339				
19		undisturbed	51.04	19.24	31	1	2		9.6	32	0.724	0.42	0.05	0.159				
20		undisturbed	57.99	19.20	34	1	2		47	81	3.27	1.08	0.0953	0.231				
21		undisturbed	19.56	16.87	36	1	1		79	220	11.7	3.52	0.29	0.448				
22		undisturbed	16.16	19.79	37	1	2		86	530	20.7	4.66	0.585	0.651				
23		undisturbed	20.98	19.10	38	1	1		30	130	3.11	0.632	0.0643	0.138				
24		undisturbed	22.15	16.43	46	1	2		60	180	16.8	3.86	0.321	0.844				
25		undisturbed	30.49	14.74	55	1	1		81	280	4.5	4.96	0.441	0.849				
26		undisturbed	38.69	16.50	57	1	3		30	200	7.19	2.36	0.208	0.432				
27		undisturbed	37.09	12.92	58	1	2		36	64	2.9	0.93	0.105	1.51				
28		undisturbed	42.48	12.47	60	1	2		140	580	27.7	9.05	0.916	1.21				
29		undisturbed	49.93	12.59	62	1	3		48	100	5.09	1.65	0.161	0.31				
30		undisturbed	56.54	11.07	65	1	1		69	100	6.12	1.95	0.268	0.468				
31		undisturbed	91.41	7.73	70	1	1		29	110	2.26	1.18	0.141	0.182				
32		undisturbed	86.28	8.85	74	1	1		17	49	4.1	0.813	0.121	0.211				
33		undisturbed	82.08	11.64	77	1	3		41	130	2.88	1.46	0.135	0.242				
34		undisturbed	76.52	11.05	79	1	1		62	410	21.2	3.55	0.382	0.542				
35		undisturbed	67.50	11.15	84	1	3		180	400	6.03	5.3	0.468	0.713				
36		undisturbed	65.79	11.67	85	1	3		63	170	6.1	2.47	0.263	0.469				
37		undisturbed	37.14	13.62	89	1	1		29	170	6.72	2.47	0.165	0.381				
38		undisturbed	31.82	14.31	97	1	3		71	270	4.24	3.38	0.246	0.346				
39		undisturbed	63.91	9.89	101	1	2		50	67	2.55	1.11	0.104	0.409				
40		undisturbed	67.61	19.19	229	1	2		20	85	2.35	0.886	0.0783	0.126				
41		undisturbed	44.12	22.61	408	1	1		31	56	1.27	0.473	0.0588	0.226				
42		undisturbed	70.52	16.78	503	1	3		30	619	21.9	2.14	0.106	0.193				

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
43		undisturbed		90.37	7.28		504	1	1		21	220	2.96	2.23	0.312	0.43
44		undisturbed		49.48	23.28		505	1	3		44	190	2.21	3.27	0.211	0.716
45		undisturbed		23.07	17.53		507	1	1		17	37	1.6	0.331	0.05	0.0879
46		undisturbed		47.77	21.79		512	1	3		47	84	1.27	1.22	0.109	0.162
47																
48																
49	Vashon-Maury	disturbed		17.88	6.64		2	1	7		23	61	2.23	0.595	0.0986	
50	Island	disturbed		21.31	8.89		4	1	4		13	45	2.3	0.623	0.0951	
51		disturbed		13.64	9.28		5	1	2		23	49	2.23	0.494	0.0805	
52		disturbed		16.7	9.38		6	2	6		64	86	6.9	1.82	0.178	
53		disturbed		16.7	9.38		6	3	2		11	150	1.7	0.446	0.0691	
54		undisturbed		16.7	9.38		6	4	1		61	430	43.3	13.4	0.924	
55		undisturbed		16.7	9.38		6	4	3		38	100	6.42	2.33	0.209	
56		undisturbed		16.7	9.38		6	4	4		23	250	5.75	0.687	0.091	
57		disturbed		16.7	9.38		6	5	1		70	240	13.4	3.9	0.274	
58		disturbed		16.7	9.38		6	5	3		50	230	11	3.62	0.327	
59		disturbed		16.93	9.31		7	2	2		8.7	290	2.83	0.683	0.0839	
60		disturbed		15.72	7.29		11	1	5		19	36	2.23	0.525	0.082	
61		disturbed		15.72	7.29		11	1	6		56	66	4.01	1.35	0.151	
62		disturbed		35.95	6.45		13	1	4		19	30	2.36	0.627	0.0763	
63		disturbed		35.95	6.45		13	1	5		110	69	7.98	1.64	0.17	
64		disturbed		12.98	11.07		19	1	3		33	54	2.91	0.81	0.0784	
65		disturbed		9.49	7.72		20	1	4		27	54	3.93	1.28	0.126	
66		disturbed		22.27	9.37		21	1	1		130	440	29.7	7.61	0.709	
67		disturbed		22.27	9.37		21	1	2		120	320	17.4	6.11	0.488	
68		disturbed		22.27	9.37		21	1	5		20	22	2.4	0.3	0.0541	
69		disturbed		22.27	9.37		21	1	8		66	270	17.3	4.34	0.326	
70		disturbed		21.28	8.55		22	1	1		110	240	14.4	5.41	0.432	
71		disturbed		13.15	11.55		26	2	3		27	65	4.47	0.912	0.105	
72		disturbed		-2.92	4.67		27	1	1		69	300	25.3	7.81	0.518	
73		disturbed		-2.92	4.67		27	1	2		67	150	7.66	2.44	0.209	
74		disturbed		-2.92	4.67		27	1	7		4.4	8	1	0.175	0.0962	
75		disturbed		-2.92	4.67		27	2	1		37	380	9.07	0.504	0.114	
76		disturbed		-2.92	4.67		27	3	2		74	300	16.5	5.65	0.519	
77		disturbed		-2.92	4.67		27	7	1		11	14	1.29	0.372	0.0603	
78		disturbed		24.52	6.55		28	1	1		70	130	10.1	3.25	0.32	
79		disturbed		24.52	6.55		28	1	3		62	120	4.57	1.34	0.146	
80		disturbed		24.52	6.55		28	1	6		71	79	8.08	1.89	0.206	
81		disturbed		24.52	6.55		28	2	5		130	580	15.5	5.19	0.357	
82		disturbed		24.52	6.55		28	2	6		100	190	14.8	4.65	0.416	
83		disturbed		10.04	13.96		30	1	3		17	900	1.45	0.293	0.0697	
84		disturbed		2.89	10.47		33	2	3		26	11	1.05	0.238	0.122	

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
85		disturbed		-3.53	7.51		35	2	1		4.5	310	2.29	0.436	0.0516	
86		disturbed		-3.53	7.51		35	2	6		9.5	120	1.57	0.1	0.05	
87		disturbed		15.53	7.37		37	1	8		18	28	1.83	0.547	0.0752	
88		undisturbed		23.78	6.95		38	3	1		130	360	27.9	8.09	0.816	
89		undisturbed		23.78	6.95		38	3	2		140	390	43.7	10.7	0.694	
90		undisturbed		23.78	6.95		38	3	3		130	220	14.6	3.62	0.235	
91		disturbed		28.62	5.63		39	1	1		13	22	2.19	0.394	0.0671	
92		disturbed		28.62	5.63		39	1	3		58	46	5.93	1.07	0.127	
93		disturbed		28.62	5.63		39	1	4		86	360	16.8	6.09	0.61	
94		undisturbed		28.62	5.63		39	6	2		150	220	16.2	4.62	0.337	
95		undisturbed		28.62	5.63		39	6	3		100	240	16.4	4.79	0.391	
96		undisturbed		28.62	5.63		39	6	4		94	100	6.91	1.77	0.182	
97		disturbed		45.39	8.78		42	2	2		16	16	1.48	0.294	0.0574	0.117
98		disturbed		45.39	8.78		42	2	5		36	61	5.51	0.834	0.106	
99		undisturbed		45.39	8.78		42	3	1		59	84	7.2	1.76	0.181	
100		undisturbed		45.39	8.78		42	3	2		59	99	7.41	1.92	0.173	
101		disturbed		7.62	9.53		43	1	2		37	73	5.08	0.915	0.105	
102		disturbed		43.61	8.26		45	1	1		14	19	1.89	0.176	0.0617	
103		disturbed		43.61	8.26		45	1	6		110	200	16.1	4.64	0.409	
104		undisturbed		41.36	7.56		84	1	1		230	681	68.1	18.7	1.5	1.69
105		undisturbed		28.62	5.63		101	1	2		160	297	17.9	5.78	0.58	0.785
106		undisturbed		-7.04	3.03		1065	1	1		120	462	50.5	14.2	1.07	1.07
107		undisturbed		30.99	5.69		1100	1	1		180	652	27	11.3	1.05	0.753
108																
109																
110	NOTES:															
111	Directions are in degrees (clockwise) measured from smelter tall stack.															
112	Distances are in miles measured from smelter tall stack.															
113	All not detected values assigned their detection limits.															